

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Noah Manning	06/16/2011
RECEIVING PARTY DATA	
Name:	The Curators of the University of Missouri
Street Address:	316 University Hall
Internal Address:	E3413 Lafferre Hall
City:	Columbia
State/Country:	MISSOURI
Postal Code:	65211
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13116709
CORRESPONDENCE DATA	
Fax Number:	(202)408-4400
Email:	virginia.mcnelis@finnegan.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Ryan Stockett
Address Line 1:	901 New York Avenue, NW
Address Line 2:	Finnegan Henderson et al.
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20001
ATTORNEY DOCKET NUMBER:	08350.0282-00000
NAME OF SUBMITTER:	Virginia McNelis-Clark
Total Attachments: 4 source=0282assignmentB#page1.tif source=0282assignmentB#page2.tif source=0282assignmentB#page3.tif source=0282assignmentB#page4.tif	

OP \$40.00 13116709

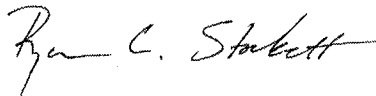
FORM PTO-1595  
1-31-92

RECORDATION FORM COVER SHEET  
PATENTS ONLY

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08350.0282-00000  
Attorney Customer Number: 58,982

To the Director of the U.S. Patent and Trademark Office:  
Please record the attached original documents or copy thereof.

Mail Stop Assignment Recordation Services

1. Name of conveying party: Noah Manring		2. Name and address of receiving party(ies): Name: The Curators of the University of Missouri	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Internal Address: E3413 Lafferre Hall	
3. Nature of conveyance:		Street Address: 316 University Hall	
<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger	City: Columbia	
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name	State: MO	Zip Code: 65211
<input type="checkbox"/> Other:		Additional name(s) & Address(es) attached?	
Execution Date: June 16, 2011		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application:			
A. Patent Application Number(s): 13/116,709 filed May 26, 2011		B. Patent Number(s):	
Additional numbers attached?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Name and address of party to whom correspondence concerning document should be mailed: Name: Christopher P. Isaac		Total number of applications and registrations involved: 1	
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.		5. Total fee (37 CFR 3.41): \$40	
Street Address: 901 New York Avenue, N.W.		<input checked="" type="checkbox"/> Enclosed (Please charge deficiency to deposit account)	
City: Washington, D.C.		<input type="checkbox"/> Authorized to be charged to deposit account	
State:	Zip: 20001	6. Deposit Account No. 06-0916	
7. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.			
Ryan C. Stockett, Reg. No. 53,642		November 3, 2011	
			
Signature		Date	
Total number of pages including cover sheet, attachments and documents: 4			

PATENT  
REEL: 027170 FRAME: 0095

## ASSIGNMENT

WHEREAS, **Noah Manring**, an individual, a citizen of the USA, having a mailing address of E3413 Lafferre Hall, University of Missouri, Columbia, MO 65211 ("Assignor"), has contributed to the invention of subject matter related to and, all or a portion of which, is disclosed, described and/or claimed in UM Invention Disclosure No.11UMC058 entitled "Rotating Portplate Control for an Axial Piston Pump" for which a patent application(s) entitled "Pump Having Port Plate Displacement Control" was filed on the 26<sup>th</sup> day of May, 2011 and assigned Application No. 13/116,709("Application");

WHEREAS, **The Curators of the University of Missouri**, a public corporation of the State of Missouri having a principal place of business at 316 University Hall, Columbia, Missouri 65211, U.S.A. ("Assignee"), is desirous of acquiring Assignor's entire right, title and interest in and to said subject matter including rights to any and all invention(s), said Application, and any and all Letters Patent that might be granted upon or otherwise stem therefrom; and

WHEREAS, pursuant to Assignor's assignment obligations under the Collected Rules and Regulations § 100.020, Assignor desires to convey any and all rights that Assignor has or might have in the aforementioned subject matter, invention(s), said Application and said Letters Patent to Assignee and Assignor requests that any ambiguities in this document be construed in favor of such conveyance.

NOW, THEREFORE, to all whom it may concern, be it known that, in consideration of Assignor's past and continued employment with and use of Assignee's funds and facilities, Assignor's assignment obligations and royalty-sharing rights under the Collected Rules and Regulations § 100.020, the sum of \$1.00 in-hand paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby assigns, transfers and conveys (or confirms any prior such conveyance as the case may be) to Assignee, Assignor's entire right, title and interest within the United States, its territories and possessions, and all foreign countries, in and to: said subject matter, said invention(s) and any and all improvements thereto, said Application, and any and all Letters Patent that may be granted therefor in any country; any and all derivative or continuing applications including any

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and all divisionals, continuations, continuations-in-part, extensions, renewals, and reissues thereof; any and all applications for patents or similar legal protection that may hereafter be filed for said invention(s) in any country; all patents or similar legal protection that may be granted for said in any country and all extensions, renewals and reissues thereof or legal equivalent thereof.

Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office, and any official of any other country whose duty it is to issue patents or similar legal protection on said invention(s), to issue patents or similar legal protection for said invention(s) to Assignee, the same to be held by Assignee for its own use and benefit, to the full end of the term for which said patents or similar legal protection are or may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment not been made.

Assignor hereby further agrees, upon the request of Assignee, to execute any and all applications for divisionals, continuations and/or continuations-in-part for said invention(s) or improvements thereto and any supplemental oath or declaration relating thereto, and any applications for the reissue or extension of any patent that may be granted upon said Application that Assignee may deem necessary or expedient. Assignor agrees to supply Assignee with all information that may be material to the patentability of said invention(s) and to cooperate with Assignee and its representatives in preparing arguments in support of patentability. Assignor further agrees that, in the event said invention(s), said Application or any patents issued thereon becomes involved in an interference, upon request of Assignee, Assignor will cooperate to the best of its ability with Assignee in preparing the preliminary statement and giving and producing evidence in support thereof. Assignor also agrees that, in the event any patent issued from said invention(s) or said Application becomes involved in litigation, upon request of Assignee, Assignor will cooperate to the best of its ability with Assignee in producing evidence in support thereof. Assignor hereby agrees to perform, upon such request, any and all affirmative acts to obtain said patents or similar legal protection, and vest all rights therein in Assignee as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment had not been made. Assignor hereby irrevocably appoints the President of Assignee, or the President's designee, as Assignor's attorney-in-fact with authority to execute for Assignor and on Assignor's

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behalf any and all assignments, applications, or other instruments and documents required to be executed by Assignor pursuant to this Agreement, if Assignor is unwilling or unable to execute same.

Assignor hereby covenants and warrants that: Assignor believes Assignor to be an original and first inventor of said invention(s); Assignor has the full right and power to convey the rights previously mentioned in said subject matter, said invention(s), said Application, and any Letters Patent issuing therefrom to Assignee; and Assignor has not executed and will not execute any other agreement that purports to assign such rights and/or one that is in conflict herewith.

IN WITNESS WHEREOF, Assignor has executed this Assignment Agreement as of the day and year written below.

ASSIGNOR

Noah Manning  
Signature

6/16/11  
Date

STATE OF Missouri )  
COUNTY OF Boone ) SS

On this 16 day of June, 2011, before me, a Notary Public in and for the State and County aforesaid, personally appeared Noah Manning, to me known and known to me to be the person of that name who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

Rhonda J James  
Notary Public

(SEAL)

My Commission Expires: 12/30/2012

